MoKMaSD 2013 - Final Call for Papers
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2nd International Symposium on
Modelling and Knowledge Management for Sustainable Development
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Madrid, Spain, 24 September 2013 - Co-located with SEFM 2013
http://www.di.unipi.it/mokmasd2013/
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Paper Submission Deadline: 23 June 2013 (EXTENDED)
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CONTEXT & OBJECTIVES
The aim of the Symposium is to bring together practitioners and researchers from academia, industry, government and non-government organisations to present research results and exchange experience, ideas, and solutions for modelling and analysing complex systems and using knowledge management strategies, technology and systems in various domain areas, including economy, governance, health, biology, ecology, climate and poverty reduction, that address problems of sustainable development. Papers presenting synergistic approaches that integrate modelling and knowledge management; illustrate realistic applications to environmental sustainability and inclusive development; and employ techniques such as simulation, visualisation, animation, nonlinear systems analysis, model-checking and inferential statistics are especially welcome.

Authors are invited to submit original research or tool papers on any relevant topic. These can either be normal or short papers. Short papers can discuss new ideas which are at an early stage of development and which have not yet been thoroughly evaluated.

TOPICS
Modelling methodologies and notations include:
* Systems Dynamics,
* Systems of Differential Equations,
* Game Theory,
* Machine Learning,
* Agent-based Methodologies,
* Process Calculi and Petri Nets,
* Automata-based Notations,
* Rewriting Systems,
* Membrane Systems,
* Cellular Automata,
* Discrete Optimisation Modelling,
* Continuous Optimisation
* Modelling,
* Empirical Modelling,
* Taxonomies and Ontologies.

Application domains include:
* Sustainability Science,
* Integrated Development Planning,
* Evidence-based Policy,
* Governance,
* Enterprise Architecture,
* Ecosystem Science,
* Epidemiology,
* Genetics,
* Population and Reintroduction Biology,
* Climate Change,
* Environmental Risk Assessment and Management,
* Urban Ecology and Smart Cities,
* Agricultural Systems,
* Poverty Reduction.
Synergistic approaches include:

(1) use of modelling methods and notations in a KM context to support
- Knowledge Sharing,
- System Thinking,
- Modelling of Products and Services,
- Population Dynamics,
- Adaptivity;

(2) development and use of common modelling and KM frameworks to explore and understand complex biological, social and economic processes and systems such as
- Ecosystems,
- Organisations,
- Individual Capabilities,
- Business Processes,
- Evolving City Systems,
- Information and Knowledge Management Infrastructures,
- Networks and Networking.

SUBMISSION AND PUBLICATION

All contributions in the form of either regular papers, between 12 and 16 pages, or short papers, up to 6 pages, will undergo a peer-review process. All papers should be written in English and be in LNCS format. Detailed information on the submission procedure are available at http://www.di.unipi.it/mokmasd2013/.

Accepted regular papers and a selection of accepted short papers will be published after the Symposium by Springer in a volume of Lecture Notes in Computer Science (LNCS), which will collect contributions to all workshops and symposia co-located with SEFM 2013 (http://www.springer.com/lncs). Condition for inclusion in the Post-proceedings is that at least one of the co-authors has presented the paper at the Symposium. Pre-proceedings will be available online before the Symposium.

A special issue with selected papers may be planned, depending on the number and quality of submissions.

IMPORTANT DATES

Paper Submission deadline: 23 June 2013
Accept/Reject Notification: 22 July 2013
Pre-proceedings Final version due: 26 August 2013
Post-proceedings Final version due: TBA

KEYNOTE SPEAKERS

* TBA

PROGRAM CO-CHAIRS

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